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(54) THERMOSETTING POWDER COATING COMPOSITION

(57)Abstract:

PURPOSE: To obtain a thermosetting powder coating composition which is excellent in pigment dispersion and painting workability, and can give a paint film excellent in surface gloss, stain resistance, impact resistance, weathering resistance, etc., by mixing a specified fluorinated copolymer with a curing agent.

CONSTITUTION: A thermosetting powder coating composition is prepared by mixing a fluorinated copolymer (A) having crosslinkable groups, fluoroolefin units, a fluorine content $\geq 10\text{wt.}\%$, an intrinsic viscosity of $0.05\text{W}2\text{dl/g}$ as measured in tetrahydrofuran at 30°C , and a glass transition temperature of $30\text{W}120^\circ\text{C}$ with a curing agent (B) which can form crosslinkages by reaction with the crosslinkable groups of copolymer A at an A to B weight ratio of 40/60W98/2. As compared with a thermoplastic fluorocarbon resin powder coating, this composition is remarkably excellent in painting workability and pigment dispersion, and gives a cured film excellent in adhesion, surface gloss, stain resistance, impact resistance, flexibility, etc., and has remarkably excellent weathering resistance.

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